

Abstract

An apparatus for measuring sizes of articles including a light projecting device for projecting light toward an article placed on a stationary transparent plate from one side of the plate, a photo-sensor device
5 arranged on the other side of the plate and having plural photo-detectors arranged in array in Y direction to receive light projected from said light projecting device and impinging upon the photo-sensor device without being interrupted by the article, a driving device for
10 reciprocally moving said light projecting device and photo-sensor device relative to the article in X direction perpendicular to the Y direction, and a shifting device for shifting said photo-sensor device in the Y direction between first and second positions which
15 are mutually separated by a half of a photo-detector array. During a forward movement of the light projecting device and photo-sensor device, the photo-detectors is shifted into the first position, and during a backward movement of the light projecting device and photo-sensor
20 device, the photo-detectors are shifted into the second position. By processing output signals generated from said photo-detectors during forward and backward movements, a size of the article in the Y direction can
25 be measured with a high resolution equal of a half of the photo-detector array pitch.